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CONFIDENTIAL

File RD103  
703

30 April 1958

O&T 58 - 599

MEMORANDUM FOR THE FILE:

SUBJECT: Programming of AS-4/AS-4A Tests

1. On 28 April 1958, a meeting was held in Mr. [ ] office for the purpose of coordinating plans in the immediate future for the testing of the AS-4/AS-4A. Present were:

For OC-E -- [ ]

For OC-O&T -- [ ]

For OC-O&T/AAB -- [ ]

For OC-O&T/SB -- [ ]

For OC-S -- [ ]

2. After brief discussions it was noted that through error Signal Center had not been asked to represent themselves and will be coordinated with immediately following the meeting.

3. [ ] informed us of the plans for testing at [ ] He announced that the AS-4A, except for the Potter Printer, was ready for delivery to [ ] He described the coming tests in four phases.

Phase A

This test will be between Los Angeles and [ ] via radio (QFM). The period is one week for 8 hours a day. On each day the 8 hour period will be moved up 4 hours, resulting in the eventual coverage of the 24 hour day during this week's test. Testing will be by "RY's" and enciphered unclassified text.

Phase B

This Phase is also for one week and will utilize the same circuitry as used in Phase A with the exception that local land line loops will be inserted between the RF and data terminals. This Phase should end approximately 15 May.

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Phase C

This Phase will also last one week and will duplicate Phase A except that a land line voice circuit will be substituted for the Los Angeles/[ ] circuit. In view of the present difficulty in obtaining the above referred to land line it is possible this Phase will be postponed until later.

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Phase D

During this Phase the data terminal will be moved to the "J" Building Signal Center, and the whole system will be tested for one more week.

4. We were informed that the Potter Printer was scheduled for delivery on approximately 1 May. It is now known that considerable difficulty is being encountered in this equipment and that the above delivery date is unlikely.

5. The following support will be required of [ ] as understood and concurred in by [ ]

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a. The AS-4A will be installed in the back room of the receiver site. This space has been cleared out by [ ] in anticipation of this installation.

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b. It would be expected that [ ] engineer, will spend some time with the equipment for familiarization purposes.

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c. An "order wire" circuit to the West Coast will be required as described in a later paragraph. One CT/R will be required for approximately 15 minutes out of each one hour during the period of the test. [ ] is to supply the CT/R at the Los Angeles end.

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d. [ ] is to provide an Operations Training Officer and an Engineering Training Officer for two or three days during the test for familiarization purposes.

e. [ ] will make available the terminals for the necessary loop patches during Phase B of the test.

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6. It was agreed that visitors from outside CIA will be escorted in every case when they visit [ ]. Further, Chief, [ ] will be advised in advance of such visits and the sponsors will arrange for necessary clearances. These visitors will not have access to facilities at the Base Station other than the AS-4A and or related equipment. It is expected that visitors would be brought in from the following sources:

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- a. [ ] -- two contract representatives
- b. Air Force -- Representative from the Home Air Development Center
- c. Signal Corps -- A representative from the Office of the Chief Signal Officer
- d. NSA -- Representatives as arranged by OC-S

7. The "order wire" mentioned above will be a CW circuit activated on an average of 15 minutes during each hour of the test. O&T Support Branch will provide the signal plan for this order circuit. OC-S will provide a brevity code to enable more secure transmission of the test information. A [ ] radio operator will be used on the Los Angeles end.

8. Efforts will be made to avoid testing of the RS-16 during the period of the AS-4A tests since such tests would involve considerable rewiring of equipment at the base. It was warned that RS-16 tests might be essential during this period in view of the present priority testing program for this equipment.

9. In discussing the weaknesses of AS-4A equipment, the opinion was expressed that the weakest link involved the KX-3 which has given considerable trouble. [ ] stated that two out of the 6 KX-3's now in stock are functioning properly.

10. For the future, a brief discussion was held regarding the move of the AS-4A to [ ]. It was agreed that, if, on completion of these tests, [ ] had not yet installed the AS-4 which is presently at [ ], it would be recommended that the [ ] AS-4 be shipped directly to [ ]. In this case [ ] would commence transmission tests with the AS-4A without benefit of transmission experience with the AS-4. It was also recalled that our still valid plans for EUCA call for installation of the data transmit terminal in the [ ] rather than the [ ] Base Station.

11. It was agreed that if further problems arose during the test the AS-4A committee would call another meeting. In any case another meeting will be held at the completion of the test.

[ ]  
Deputy Chief, OC-O&T

Distribution: (2) - OC-E, 1 - OC-S, 1 - S/C, 1 - OC-P, 1 - D/CO, 1 - OC-O&T  
1 - OC-O&T/SB, 2 - OC-O&T/AAB, 1 - OC-O&T/EURB, 1 - OC-O&T/MEMB